	Application No.	Applicant(s)	
	дрисации но.		
Notice of Allowability	09/987,038	KIM ET AL. Art Unit	
	Examiner	AR Unit	
	Tarifur R Chowdhury	2871	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSED in this b) or other appropriate communication. This application is subjected and MPEP 1308.	s application. If not included ation will be mailed in due o	ourse. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>RCE filed on 03/02/0</u>	<u>94</u> .		
2. The allowed claim(s) is/are <u>1-28</u> .			
3. $\boxtimes$ The drawings filed on <u>13 November 2001</u> are accepted by	y the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority of a)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 1.  Copies of the certified copies of the priority documents have 2.  Certified copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 1.  Copies of the certified copies of the priority documents have 2.  Certified copies not received:</li></ul>	re been received. re been received in Application Nocuments have been received in " of this communication to file a re MENT of this application.  mitted. Note the attached EXAMII ves reason(s) why the oath or decust be submitted. rson's Patent Drawing Review (Final Processor of the Amendment / Comment or in the file the header according to 37 CFR 1.  osit of BIOLOGICAL MATERI	o this national stage application and stage application is deficient.  PTO-948) attached the Office action of the control of the cont	uirements OTICE OF
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Sumr Paper No./Ma 7. Examiner's Am	il Date	

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## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/02/04 has been entered.

## Allowable Subject Matter

- 2. Claims 1-28 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:
- 4. As to claim 1, the prior arts of record do not anticipate or render obvious to one skilled in the art an array substrate for an in-plane switching liquid crystal display device comprising various elements as claimed, more specifically a plurality of pixel electrodes alternated with the common electrodes, each pixel electrode having at least one bent portion, wherein the at least one bent portion does not overlap the common line.
- 5. As to claim 9, the prior arts of record do not anticipate or render obvious to one skilled in the art an array substrate for an in-plane switching liquid crystal display device comprising various elements as claimed, more specifically a plurality of pixel electrodes alternated with the common electrodes, each pixel electrode having at least one bent portion wherein the overlapping common electrode is formed of a non-transparent material and wherein the common line and the common electrodes except for the

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overlapping common electrode are formed on the same layer as the pixel line and pixel electrodes.

- 6. As to claim 18, the prior arts of record do not anticipate or render obvious to one skilled in the art an array substrate for an in-plane switching liquid crystal display device comprising various elements as claimed, more specifically a plurality of common electrodes having at least one bent portion, at least one of the common electrodes covering the data line and extending to a neighboring pixel region.
- 7. As to claim 20, the prior arts of record do not anticipate or render obvious to one skilled in the art a method of fabricating an array substrate comprising various elements as claimed, more specifically forming the data line having a substantially zigzag shape and overlapping at least one common electrode, wherein a width of the at least one common electrode is wider than a width of the data line.
- 8. As to claim 21, the prior arts of record do not anticipate or render obvious to one skilled in the art a method of fabricating an array substrate comprising various elements as claimed, more specifically forming common and pixel electrodes having substantially zigzag shape, wherein the common line and the other common electrodes are formed on the same layer as the pixel electrodes and the pixel line.
- 9. As to claim 22, the prior arts of record do not anticipate or render obvious to one skilled in the art a method of fabricating an array substrate comprising various elements as claimed, more specifically forming common and pixel electrodes having substantially zigzag shape and being alternated with each other, and at least one overlapping common electrode in a layer above the data line and overlapping a portion of the data

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line, wherein the common line and the common electrodes are formed on the same layer as the pixel electrodes.

- 10. As to claims 24 and 25, the prior arts of record do not anticipate or render obvious to one skilled in the art a substrate for a switching liquid crystal display device comprising various elements as claimed, more specifically a plurality of common electrodes having at least one bent portion, wherein at least one of the common electrodes is on a layer above the data line, wherein the at least one of the common electrodes overlaps/covers at least a portion of the data line and wherein the layer is one of a gate insulating layer and a passivation layer.
- 11. As to claim 26, the prior arts of record do not anticipate or render obvious to one skilled in the art a substrate for a switching liquid crystal display device comprising various elements as claimed, more specifically a plurality of common electrodes having at least one bent portion, wherein at least one of the common electrodes is on a layer above the data line, wherein the at least one of the common electrodes overlaps at least a portion of the data line and a common line connected to the common electrodes, wherein the common line overlaps the gate line.
- 12. USPAT 5,745,207 (Asada) and USPAT 6,466,289 (Lee) both disclose an inplane switching type liquid crystal display device. Further, Asada shows that the data
  line, the pixel electrode and the common electrode have at least one bent portion. Lee
  also discloses that the common electrode overlaps with one or more data lines.
  However, Asada and Lee alone or in combination fail to teach or suggest the claimed

TARIFUR R. CHOWDHURY PRIMARY EXAMINER

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array substrate for a liquid crystal display device or a method of forming such a substrate for the device.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (571) 272-2287. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRC April 15, 2004

TARIFUR R. CHOWDHURF